

## SECTION E PERITONEAL DIALYSIS

The prospective national audit of the incidence of peritoneal dialysis (PD) related peritonitis, adequacy of peritoneal dialysis and causes of PD technique failure has been reported to the SRR from all adult renal units in Scotland every 6 months since 1999.

The standard definition of peritonitis used by the SRR can be found on the SRR website:

<http://www.srr.scot.nhs.uk/Projects/Projects3.html#periton>

The number of prevalent adult patients on PD has fallen progressively since 1999 from 435 to 233 at the end of 2012. During the same time period the proportion of patients on APD has increased from 28% to 74%. These data exclude children on PD.

During 2012 a total of 115 adult patients started PD in Scotland (78 incident patients attempted PD as their first mode of RRT; 26 transfers from HD; 5 transfers from other units not in Scotland and 6 failed transplants).

During 2012 128 adult patients discontinued PD (65 transfers to HD; 4 transfers to units not in Scotland; 34 transplants; 22 deaths; 3 patients recovered residual renal function).

E1 Peritonitis rates in adult renal units 2000-2012						
	Jan 2000 - Dec 2007	Jan -Dec 2008	Jan -Dec 2009	Jan -Dec 2010	Jan -Dec 2011	Jan -Dec 2012
Months between episodes of peritonitis	19.9	18.5	18.7	18.8	23.4	27.0

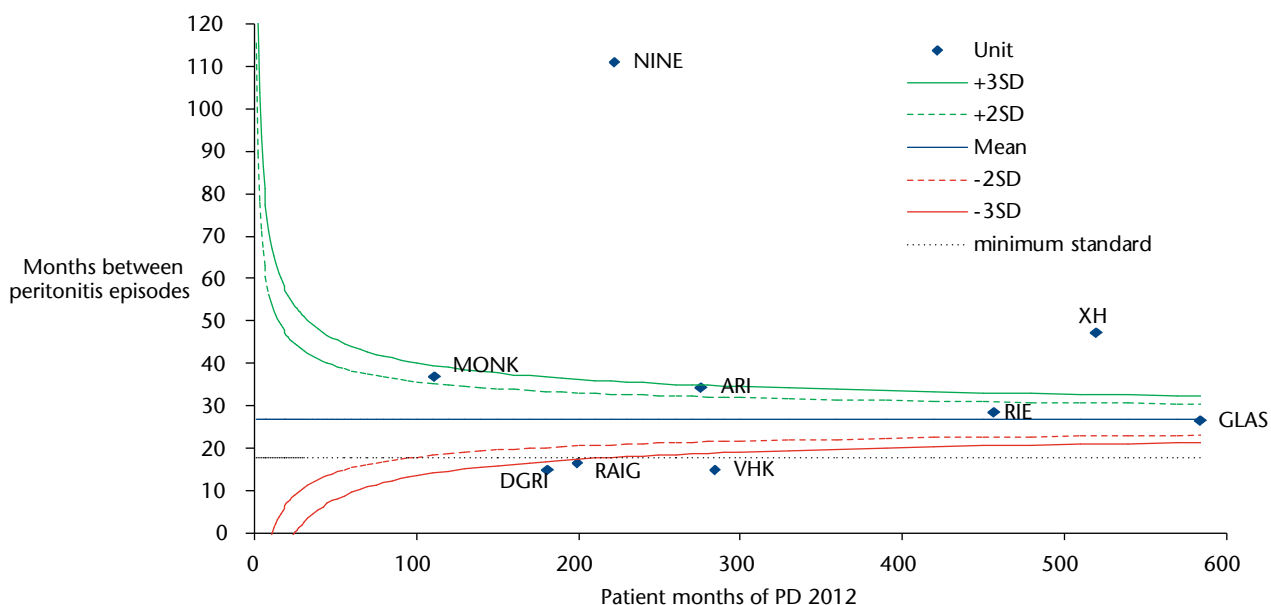
There were 105 episodes of peritonitis in 2834 patient months on PD in 2012. Peritonitis rates are quoted as the number of patient months between infections.

The spectrum of causative organisms was similar to that in earlier SRR reports and reports from other regional and national registries. The culture negative peritonitis rate in 2012 remained relatively high at 18.1%.

E2 Causes of technique failure and prevalence of inadequate dialysis 2010-2012						
Year	Number of PD patients transferring to HD	Number (%) patients with technique failure due to peritonitis		Number (%) patients with technique failure due to underdialysis		% of PD patients with total creatinine clearance <50/L/week/1.73m <sup>2</sup>
2010	93	35	(38%)	15	(16%)	9.2%
2011	85	33	(39%)	27	(32%)	9.2%
2012	65	20	(31%)	18	(28%)	10.7%

Inadequate peritoneal dialysis is defined as patients who remain on PD with total creatinine clearance  $<50/L/week/1.73m^2$ . 10.7% of the 233 patients on PD at the end of December 2012 had a most recent total creatinine clearance  $<50/L/week/1.73m^2$ .

**E3 Peritonitis rates in adult renal units 2012**



There is wide variance in peritonitis rates among the units which is partly explained by small numbers of patients receiving PD. Four units appear within 3SD of the mean (27 months between episodes of peritonitis). Three units, RAIG, DGRI and VHK have times between episodes of peritonitis which are more than 3SD below the mean and have peritonitis rates in 2012 which are worse than the minimum standard set by the UK Renal Association (one episode of peritonitis every 18 months). Two units, NINE and XH have times between episodes of peritonitis which are more than 3SD above the mean.